

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	(bias\$3 with spindle) with contact\$3 with (disk or disc)	EPO; JPO	OR	ON	2006/02/14 13:46
L2	5	(bias\$3 with spindle) same (contact\$3 with (disk or disc))	EPO; JPO	OR	ON	2006/02/14 13:47
S1	0	(align\$4 near (disk or disc)) and paul-kim.xa.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S2	3	(align\$4 near (disk or disc)) and kim-paul.xa.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:09
S3	7	(align\$4 with (disk or disc)) and kim-paul.xa.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:10
S4	10	((align\$4 or balanc\$3) with (disk or disc)) and kim-paul.xa.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:10
S5	27	("3753281"   "4224648"   "4358803"   "4604664"   "4683505"   "4697216"   "4764828"   "4933927"   "4989107"   "5010427"   "5031061"   "5101306"   "5121272"   "5333080"   "5555144"   "5572382"   "5610900"   "5628168"   "5663851"   "5715114"   "5731928"   "5781374"   "5825746"   "5877571"   "5964027"   "6105240"   "6418612"):PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/03 09:42
S6	404	29/603.03,603.04.ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:42
S7	3155	360/98.05-99.08,99.12.ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:45
S10	784	369/270,271.ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:45

## EAST Search History

S11	6462	(align\$4 near (disk or disc))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S12	38	S6 and S11	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S13	194	S7 and S11	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S14	8	S10 and S11	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S15	233	S12 or S13 or S14	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S16	152	spindle near protrusion\$1	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:49
S17	0	S15 and S16	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:48
S18	43	spindle near contact\$3 near (disk or disc)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:51
S19	1	S15 and S18	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:49
S20	2837	spindle with contact\$3 with (disk or disc)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:51
S21	57	S15 and S20	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:51
S22	11	S6 and S21	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 09:52

## EAST Search History

S23	59	(bias\$3 near spindle) with (disk or disc)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:00
S24	19	S20 and S23	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:00
S25	37	MALLARY-MICHAEL.in.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:00
S26	75	(bias\$3 with spindle) with contact with (disk or disc)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:00
S27	80	(bias\$3 with spindle) with contact\$3 with (disk or disc)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/14 13:46
S28	0	S25 and S27	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:00
S29	116	(bias\$3 with spindle) same (contact\$3 with (disk or disc))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/14 13:47
S30	0	S25 and S29	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:04
S31	0	S11 and S25	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:05
S32	16	S25 and (disk adj drive)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:05
S33	15	S11 and S29	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/02/03 10:07

## EAST Search History

S34	16	(US-20030193735-\$).did. or (US-6651311-\$ or US-6418612-\$ or US-5877571-\$ or US-5825746-\$ or US-5715114-\$ or US-5333080-\$ or US-5101306-\$ or US-5031061-\$ or US-4989107-\$ or US-4224648-\$ or US-5801901-\$ or US-6453541-\$ or US-5056082-\$ or US-6724567-\$ or US-5548454-\$).did.	US-PGPUB; USPAT	OR	ON	2006/02/03 10:11
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